

Patent Application Number: 10/619,246

In the Abstract

Please amend the abstract as follows, a substitute abstract has been attached to this Response.

A vehicle mounted oil recovery system uses a conduit to transport oil from an engine lubricating system of the vehicle to a retort system, mounted upon the vehicle. The retort system distills the transported oil, through vaporization, into individual components. These vaporized components are further subjected to a slight cooling to separate water and fuel vapor from oil vapor. The oil vapor condenses and returned to the engine lubricating system of the vehicle. On the other hand, the vaporized water and fuel is transported to a fuel system of the vehicle for combustion thereof. The heat needed for vaporization is extracted from an exhaust system of the vehicle by mounting the retort system directly upon the exhaust system. The retort system captures the heat from the exhaust system of the vehicle to provide energy for the vaporization of the transported oil into individual components. ~~A control system can be provided to control a flow of vaporized components to a fuel system of the vehicle for combustion thereof such that the vaporized components are only injected into the fuel system when the engine reaches a predetermined temperature and/or the engine reaches a predetermined speed.~~

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ABSTRACT OF THE DISCLOSURE

A vehicle mounted oil recovery system uses a conduit to transport oil from an engine lubricating system of the vehicle to a retort system, mounted upon the vehicle. The retort system distills the transported oil, through vaporization, into individual components. These vaporized components are further subjected to a slight cooling to separate water and fuel vapor from oil vapor. The oil vapor condenses and returned to the engine lubricating system of the vehicle. On the other hand, the vaporized water and fuel is transported to a fuel system of the vehicle for combustion thereof. The heat needed for vaporization is extracted from an exhaust system of the vehicle by mounting the retort system directly upon the exhaust system. The retort system captures the heat from the exhaust system of the vehicle to provide energy for the vaporization of the transported oil into individual components.